`Name(s) of Risk Team Members: F. Cullen, L. Masi, J. Moore, R. Savage	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Helium Gas Compressor - Upgrade Oil Level Control Job Number or Job Identifier: JRA-09-06	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Replacing He Gas Compressor oil level probe	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): Electrical/Mechanical Safe Work Practices Approved by: *E. Lessard* Date: 5/5/2006 Rev. #: 0	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple

Stressors (if applicable, please list all):	Reason for Revision (if applicable):
High noise area and heat stress during summer months.	Annual review

			Before Additional Controls						After Additional Controls					
Job Step / Task	Hazard	Control(s)	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	Control(s) Added to Reduce Risk	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	% Risk Reduction
Isolate electrical power to He Gas Compressor	Electric Shock	Stand to side of switch while operating, NFPA 70E PPE, training, LOTO, approved procedures	Y	2	1	2	3	12								
Isolate high pressure gas and bleed down compressor to atmosphere pressure	Air Blast	PPE, training, approved procedures	Y	2	1	1	3	6								
Reduce oil level (may be hot) to accommodate new instrument probe	Burns (oil may be hot if compressor has not cooled down)	PPE, training, approved procedures	Y	2	1	1	3	6								
Remove old probe from He Gas Compressor well and insert new instrument probe	Burns (oil may be hot if compressor has not cooled down)	PPE, training, approved procedures	Y	1	1	1	3	3								
Install new instrument probe wiring	Electric Shock	Listed electrical equipment, NFPA 70E PPE, approved procedures, training, LOTO, no exposed equipment	Y	1	1	1	3	3								
Install omega meter in control panel using greenlee punch and drill motor	Electric Shock	NFPA 70E PPE, training, LOTO, approved procedures, no exposed equipment	Y	1	1	1	3	3								

System installation testing and verification process	Arc blast from motor if shorted, loose parts act as missiles	Keep as far from motor as possible when starting, NFPA 70E PPE, procedures, training, Work Permit	Y	2	1	2	3	12									
He Gas Compressor pump and purge	Overpressure or flying missiles - Potential System Contamination	Training, PPE, proper valve lineup checked before pump start, Work Permit, approved procedures	Y	2	1	1	3	6									
Startup post-testing (vary oil levels and verify alarm levels)	Overpressure or flying missiles	Training, PPE, proper valve lineup checked before pump start, Work Permit, approved procedures	Y	2	1	1	3	6									

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable